## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(	See Instruct	tions on Rev	erse Side	)			
Open Flow					Test Date	Test Date: API No. 15						
Deliverabilty											5-00-00	
Company Atlas Op		ıg, L	LC				Lease Lloyd V	Veils			7-20	Well Number
County Location Kingman SW-SE-NW				Section 20				RNG (E/	W)	,	Acres Attributed	
Field						Reservoir Mississippi			Gas Gathering Connection Pioneer Exploration LLC			
Completion Date				Plug Bac 4342'	Plug Back Total Depth 4342'			Packer S	Set at			
Casing Size Weight 4.5" 10.5#					Internal [ 4.052"	Diameter	Set at <b>4378'</b>		Perforations 4236'		то 4241'	
Tubing Size			Weigh	t	Internal Diameter 1.995"		Set at 4291'		Perforations		То	
					d Production Vater		Pump Unit or Traveling Pump Unit			Plunger? Yes / No		
Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide			% Nitrogen		Gas Gravity - G <sub>g</sub>		
Annulus				.114				1.210	·-·	6.70		
Vertical Depth(H) 4390				Pressure Taps Pipe						(Meter Run) (Prover) Size 4		
Pressure	Buildu	ıp:	Shut in10/	26 <sub>2</sub>	0_14_at	1:00_	(AM)(PM)	Taken_10	/27	20	14 at Q:Q	(AM)(PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFACE	DATA	,		Duration of Shut-	n_24 Hours
Static / Orifice Dynamic Size Property (inches)		Circle one: Meter Prover Pressi	I	Flowing Well Head Temperature t t		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>6</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0			psig 95	psia	psig 80	psia		
Flow												
						FLOW STR	EAM ATTRI	BUTES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter ot Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Flowing Devia emperature Fact Factor F <sub>p</sub>		ctor R		w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> )² =			/D \2-		(OPEN FL	, ,	<b>ERABILITY)</b> % (P	CALCUL c - 14.4) +			(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	? = 0.20 <b>7</b> ? =
(P <sub>c</sub> ) <sup>2</sup> - (I		: (F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup>	LOG of formula		Backpres Slop	sure Curve e = "n" or		roe	Antilog	Open Flow Deliverability Equals R x Antilog
(1-2) (1	-4/-			divided by: P <sub>o</sub> <sup>2</sup> - P <sub>w</sub>	and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		signed ard Slope				(Mcfd)
					-	· <del>-</del> · · · ·		<del></del>				
Open Flow Mcfd @ *			Mcfd @ 14.	65 psia		Deliverability			Mcfd @ 14.65 psia			
		igner	d authority, o		•	states that h			o make th		ort and that he ha	
		_	•	aid report is true			-			•	<u></u>	, 20 15
		,			KANS	Rece SAS CORPORA	eived TION COMMISS	ION				
<del></del>	<u> </u>	,	Witness (	••		JAN 1	2 2015 _				Company	
			For Comr	nission				· · · <del></del>		Che	cked by	

exempt status under R and that the foregoing correct to the best of m of equipment installation	enalty of perjury under the laws of the state of Kansas that I am authorized to request uie K.A.R. 82-3-304 on behalf of the operator Atlas Operating, LLC pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records on and/or upon type of completion or upon use being made of the gas well herein named.
	one-year exemption from open flow testing for the Lloyd Wells #7-20
gas well on the ground	s that said well:
is c is a is a is o is n	coalbed methane producer ycled on plunger lift due to water source of natural gas for injection into an oil reservoir undergoing ER n vacuum at the present time; KCC approval Docket No ot capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
Date: 01/06/2015	
Rece KANSAS CORPORAT JAN 1 CONSERVATIO WICHIT	2 2015 Signature: Live Wave Coordinator  Title: Regulatory Coordinator

## Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.